

FortiSwitch 124F Series

FS-124F, FS-124F-PoE, FS-124F-PPoE

Product Registration

Thank you for purchasing a Fortinet FortiSwitch. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your Fortinet FortiSwitch:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>



November 13, 2020

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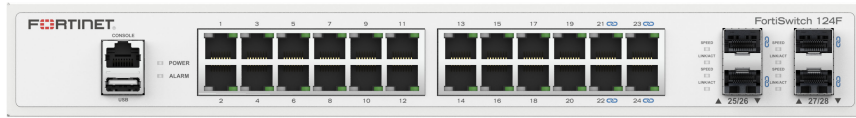
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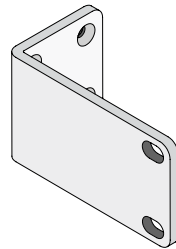
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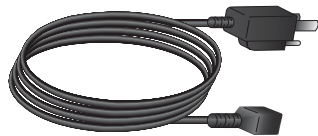
FortiSwitch 124F



QuickStart Guide



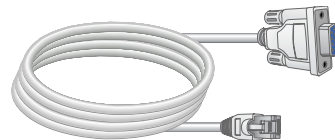
2x Rack-Mount Brackets



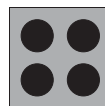
Power Cable



8x Bracket Screws

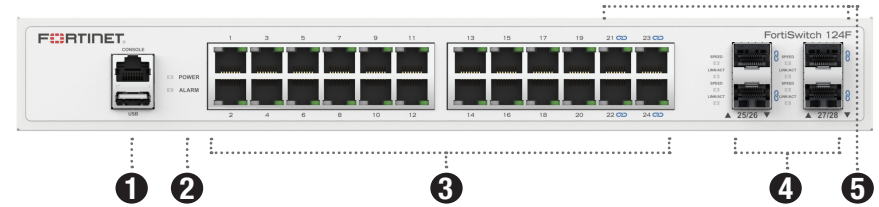


Console Cable
(DB9 to RJ45)



4x Rubber Feet

Front Panel - FS-124F



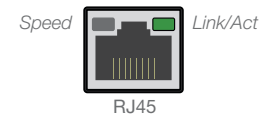
- 1 **CONSOLE (RJ45)** client management port, default IP 192.168.1.99
USB (2.0) for future use

- 2 **POWER**
■ **Green**: Power is on
■ **Off**: Power is off

- ALARM**
■ **Amber**: Fault detected
■ **Off**: No fault detected

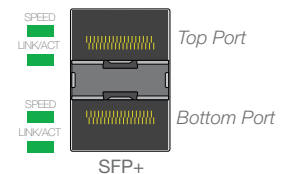
- 3 **Ports 1 to 24 (RJ45)** GE network connections
■ **Green**: Connected at 1000Mbps
■ **Off**: Connected at 10/100Mbps or not in use

- Act/
Link
■ **Green**: Connected
■ **Flashing Green**: Data activity
■ **Off**: No link established



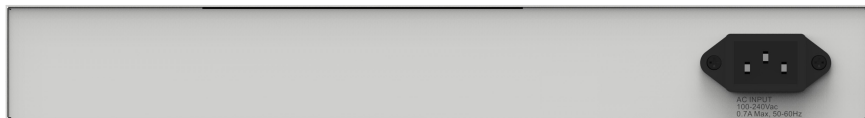
- 4 **Ports 25 to 28 (SFP+)** 10Gbps SFP connections
■ **Green**: Connected at 10Gbps
■ **Amber**: Connected at 1Gbps
■ **Off**: No link established

- Act/
Link
■ **Green**: Connected
■ **Flashing Green**: Data activity
■ **Off**: No link established



- 5 **FortiLink Ports 21 to 28 (RJ45 & SFP+)** FortiLink interface connections

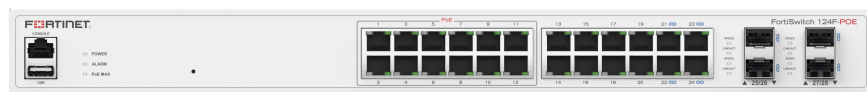
Rear Panel - FS-124F



①

① **Power Supply** 100-240V AC, 0.7A Max, 50/60Hz

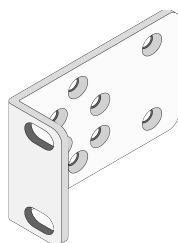
Contents - FS-124F-PoE



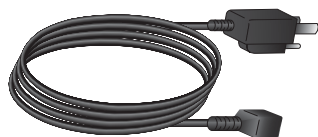
FortiSwitch 124F-PoE



QuickStart Guide



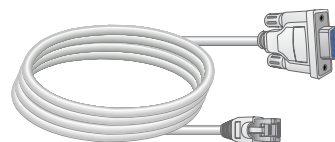
2x Rack-Mount Brackets



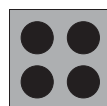
Power Cable



8x Bracket Screws

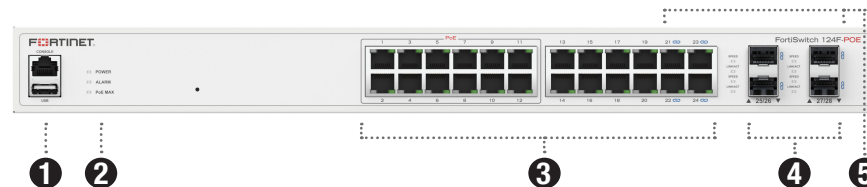


Console Cable
(DB9 to RJ45)



4x Rubber Feet

Front Panel - FS-124F-PoE



1 CONSOLE (RJ45) client management port, default IP 192.168.1.99

USB (2.0) for future use

2 POWER

■ **Green:** Power is on
■ **Off:** Power is off

PoE MAX (up to 185W)

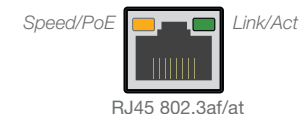
■ **Amber:** Providing Max PoE power
■ **Off:** PoE power available

ALARM

■ **Amber:** Fault detected
■ **Off:** No fault detected

3 PoE Ports 1 to 12 (RJ45) GE network connections

■ **Green:** Connected at 1000Mbps
■ **Amber:** Connected at 100Mbps / PoE on
■ **Off:** Connected at 10Mbps or not in use / PoE off



4 Ports 13 to 24 (RJ45) GE network connections

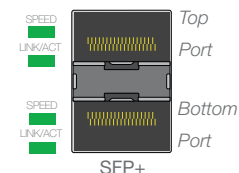
■ **Green:** Connected at 1000Mbps
■ **Amber:** Connected at 100Mbps
■ **Off:** Connected at 10Mbps or not in use

Act/Link
■ **Green:** Connected
■ **Flashing Green:** Data activity
■ **Off:** No link established

5 Ports 25 to 28 (SFP+) 10Gbps SFP connections

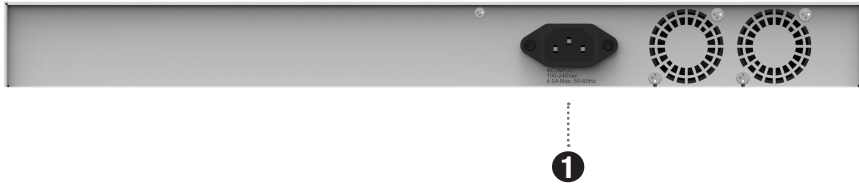
■ **Green:** Connected at 10Gbps
■ **Amber:** Connected at 1Gbps
■ **Off:** No link established

Act/Link
■ **Green:** Connected
■ **Flashing Green:** Data activity
■ **Off:** No link established



6 FortiLink Ports 21 to 28 (RJ45 & SFP+) FortiLink interface connections

Rear Panel - FS-124F-PoE



- 1** Power Supply 100-240V AC, 4.0A Max, 50/60Hz

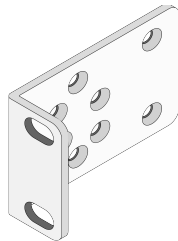
Contents - FS-124F-FPoE



FortiSwitch 124F-FPoE



QuickStart Guide



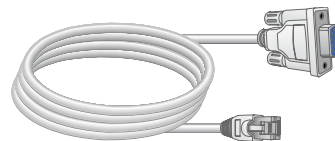
2x Rack-Mount Brackets



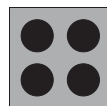
Power Cable



8x Bracket Screws

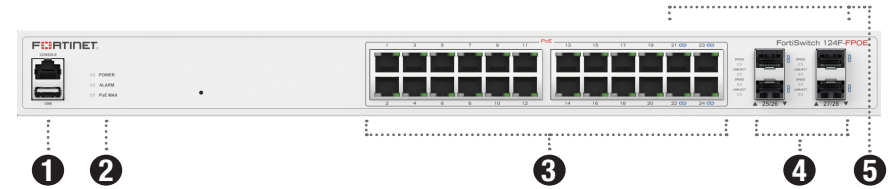


Console Cable
(DB9 to RJ45)



4x Rubber Feet

Front Panel - FS-124F-FPoE



- 1** CONSOLE (RJ45) client management port, default IP 192.168.1.99
USB (2.0) for future use

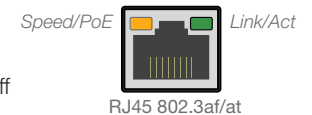
- 2** POWER
- Green: Power is on
 - Off: Power is off
- PoE MAX (up to 370W)
- Amber: Providing Max PoE power
 - Off: PoE power available

ALARM

- Amber: Fault detected
- Off: No fault detected

- 3** Ports 1 to 24 (RJ45) GE network connections

- Speed/
PoE
- Green: Connected at 1000Mbps
 - Amber: Connected at 100Mbps / PoE on
 - Off: Connected at 10Mbps or not in use / PoE off

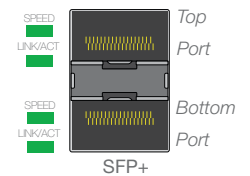


- Act/
Link
- Green: Connected
 - Flashing Green: Data activity
 - Off: No link established

- 4** Ports 25 to 28 (SFP+) 10Gbps SFP connections

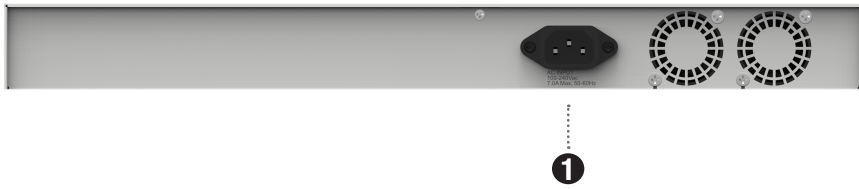
- Speed
- Green: Connected at 10Gbps
 - Amber: Connected at 1Gbps
 - Off: No link established

- Act/
Link
- Green: Connected
 - Flashing Green: Data activity
 - Off: No link established



- 5** FortiLink Ports 21 to 28 (RJ45 & SFP+) FortiLink interface connections

Rear Panel - FS-124F-FPoE

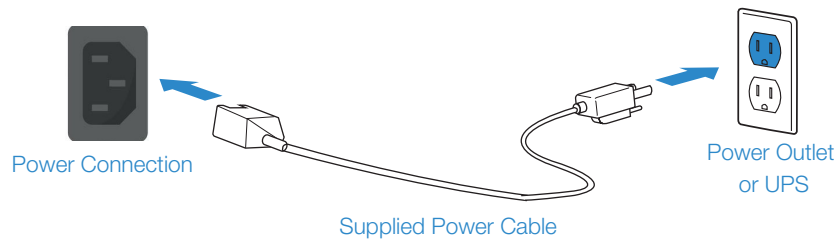


- 1** Power Supply 100-240V AC, 7.0A Max, 50/60Hz

Installation Options

Your device includes a rackmount kit. You can also install your device as Desktop. Custom Rack/Rail kits are also available.

Basic Connections



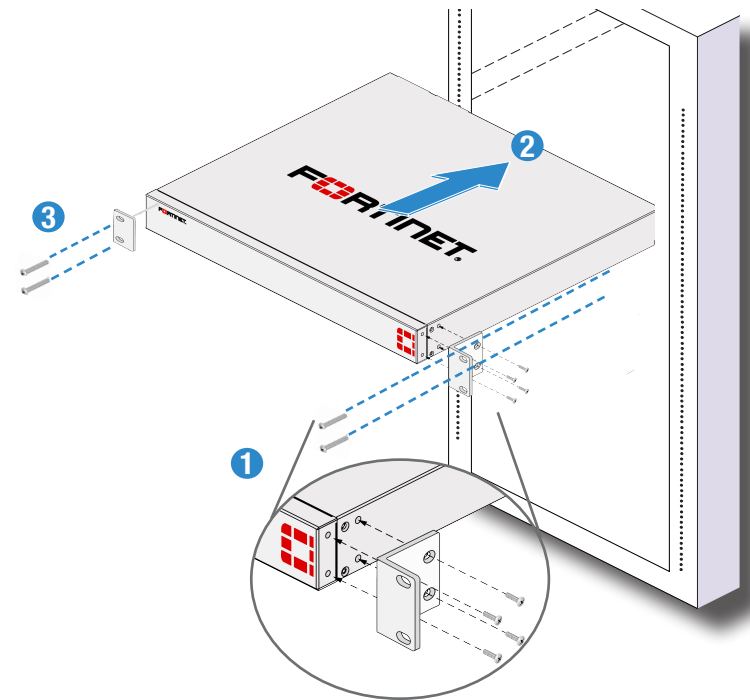
Plug in your device to a power outlet using the provided power cables.

Note: We recommend connecting your FortiSwitch to an [uninterruptible power supply \(UPS\)](#) in case of a power outage

Rack Installation

This device mounts in a standard 19 inch rack.

1. [Attach](#) the provided rack-mount [brackets and screws](#)
2. [Position](#) the device and [slide into the rack](#)
3. [Fasten](#) rack screws to [secure the device](#)

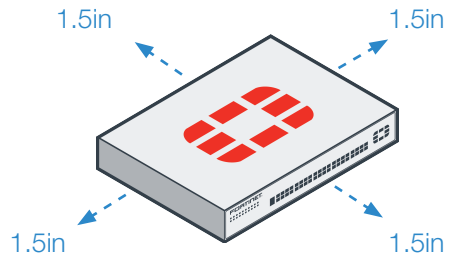


Caution: Ensure there is at least 1.5 inches of space above and below the device

Warning: For safety, it is recommended that two people install the device

Desktop Option

1. Place the unit on a flat, clean and stable surface
2. Ensure there is at least 1.5in of clearance for adequate airflow

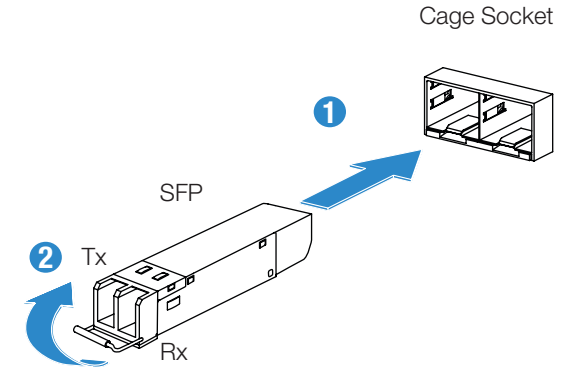


3. Plug the provided power cables into the rear of the unit and then into a grounded electrical outlet or separate power source

SPF Transceivers

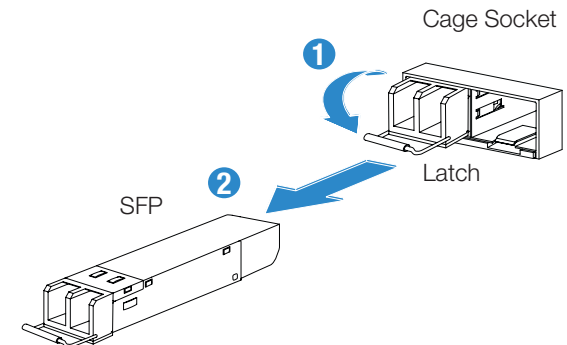
To install the SFP transceivers:

1. Slide the SFP into the cage socket until it clicks into place
2. Lift the latch to lock the SFP



To remove the SFP transceivers:

1. Lower the latch to unlock the SFP
2. Carefully pull the SFP out of the cage socket



Setup Options

Set up your device locally using the GUI or CLI. Choose an option to complete your setup, then configure your device.



Local Setup

A GUI

An [easy-to-use GUI](#), compatible with most web browsers. To minimize scrolling, the screen resolution should be at least 1280 x 1024 pixels.

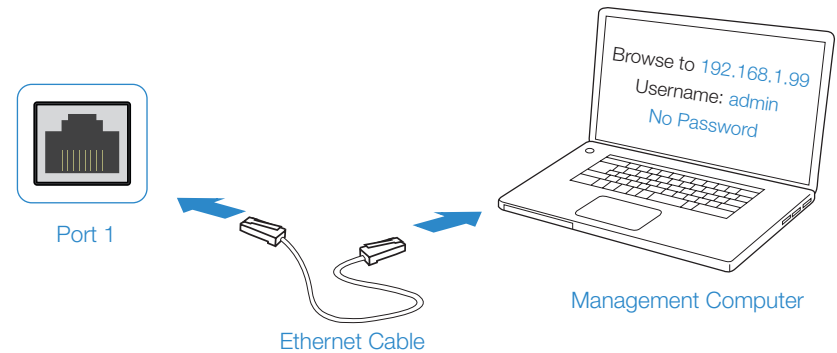


Local Setup

B Command Line Interface (CLI)

An alternate configuration tool from the web-based manager that uses a [terminal emulation](#) application to [type commands](#) or upload batches of commands from a text file or [configuration script](#).

A GUI

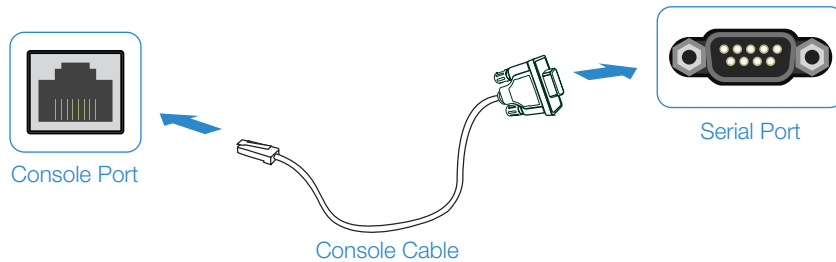


1. Connect [port 1](#) to the [Management Computer](#) using the supplied [Ethernet cable](#)
2. Enable [DHCP](#) or set the Management Computer's [IP](#) and [subnet](#) to:

Static IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

3. Visit [192.168.1.99](#) in a web browser
4. [Log in](#) with the username [admin](#) and [no password](#)
5. You can now configure your FortiSwitch

Note: After you log in for the first time, you will be prompted to set a new password



1. Connect the [Console Port](#) with a [Console Cable](#) to the [Serial Port](#) on the [Management Computer](#)
2. Start a [terminal program](#) on the [Management Computer](#) and select an available [COM Port](#) using the following default settings:

Baud rate: 115200
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

3. Log in using username [admin](#) and [no password](#)
4. You can now configure your FortiSwitch

Note: After you log in for the first time, you will be prompted to set a new password

Resources

Refer to the following resources to continue your FortiSwitch setup.

Fortinet Customer Service & Support

Create a support account, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

<https://support.fortinet.com>

Fortinet Document Library

Up-to-date versions of Fortinet publications for the entire family of Fortinet products.

<http://docs.fortinet.com>

Training Services

Course descriptions, availability, schedules, and location of training programs in your area.

<http://www.fortinet.com/support/training.html>

Technical Discussion Forums

Communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues.

<https://support.fortinet.com/forum>

FortiGuard Threat Research and Response

Up-to-date information on vulnerabilities and threats, includes a virus scanner, IP signature look-up, and web filtering tools.

<http://www.fortiguard.com>

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 45°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions.
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Température ambiante élevée - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Ventilation réduite - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique - Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtension - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre - Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Battery - Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie - Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:

There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.

Dispose batteries of according to the manufacturer's instructions.

Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.

Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.

If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNING:

Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Caution: This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

V C C I - A

Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法 (PSE) の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fortinet.com/bsmi>

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

英屬蓋曼群島防務技術股份有限公司 台灣分公司
地址：台北市內湖區行愛路176號2樓
電話：(02) 27961666

China

此為A級產品，在生活環境中，該產品可能會造成無線電干擾。這種情況下，可能需要用戶對其採取切实可行的措施。

Fortinet Product License Agreement / EULA and Warranty Terms

Product License Agreement

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